



# BEA AquaLogic® User Interaction

## Customization Overview



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# Welcome

This book provides an overview of how to customize and localize AquaLogic User Interaction. For products and versions covered by this book, see the section [Products Covered by the Deployment Guide](#) in the *Deployment Overview* book.

## How to Use This Book

### Audience

This guide is written to provide guidance to people responsible for the design and deployment of the AquaLogic User Interaction system. Access to resources with strong knowledge of the platform operating system, database, web and application servers, and any other third-party software is recommended.

### Organization

This guide includes the following chapters:

- This chapter provides information on how to use this guide and describes general resources available to assist in the AquaLogic User Interaction deployment.
- [Chapter 2, “Development Resources”](#) provides an overview of development resources available for customizing AquaLogic User Interaction.
- [Chapter 3, “Customizing the User Interface”](#) summarizes AquaLogic User Interaction user interface customization techniques.

- [Chapter 4, “Localization”](#) provides an overview of localization options for an AquaLogic User Interaction deployment.

# Typographical Conventions

This book uses the following typographical conventions.

Table 1-1 Typographical Conventions

Convention	Typeface	Examples/Notes
<ul style="list-style-type: none"><li>• File names</li><li>• Folder names</li><li>• Screen elements</li></ul>	<b>bold</b>	<ul style="list-style-type: none"><li>• Upload <b>Procedures.doc</b> to the portal.</li><li>• The log files are stored in the <b>logs</b> folder.</li><li>• To save your changes, click <b>Apply Changes</b>.</li></ul>
<ul style="list-style-type: none"><li>• Text you enter</li></ul>	computer	Type Marketing as the name of your community.
<ul style="list-style-type: none"><li>• Variables you enter</li></ul>	computer with angle brackets (<>)	Enter the base URL for the Remote Server. For example, http://<my_computer>/.
<ul style="list-style-type: none"><li>• New terms</li><li>• Emphasis</li><li>• Object example names</li></ul>	<i>italic</i>	<ul style="list-style-type: none"><li>• <i>Portlets</i> are Web tools embedded in your portal.</li><li>• The URI <i>must</i> be a unique number.</li><li>• The example Knowledge Directory displayed in Figure 5 shows the <i>Human Resources</i> folder.</li></ul>

# BEA Documentation and Resources

This section describes other documentation and resources provided by BEA.

Table 1-2 BEA Documentation and Resources

Resource	Description
Installation and Upgrade Guides	These guides describe the prerequisites (such as required software) and procedures for installing or upgrading the various AquaLogic User Interaction components. These guides are available under the appropriate product sections on <a href="#">edocs.bea.com</a> .
Administrator Guides	These guides describe how to manage and maintain the various AquaLogic User Interaction components. These guides are available under the appropriate product sections on <a href="#">edocs.bea.com</a> .

**Table 1-2 BEA Documentation and Resources**

Resource	Description
Release Notes	<p>The release notes provide information about new features, issues addressed, and known issues in the release of various AquaLogic User Interaction products.</p> <p>They are available on <a href="http://edocs.bea.com">edocs.bea.com</a>.</p>
Online Help	<p>The online help is written for all levels of AquaLogic User Interaction users. It describes the user interface for AquaLogic User Interaction components and gives detailed instructions for completing tasks in AquaLogic User Interaction products.</p> <p>To access online help, click the help icon.</p>
Developer Guides, Articles, API Documentation, Blogs, Newsgroups, and Sample Code	<p>These resources are provided for developers on the BEA dev2dev site (<a href="http://dev2dev.bea.com">dev2dev.bea.com</a>). They describe how to build custom applications using AquaLogic User Interaction and how to customize AquaLogic User Interaction products and features.</p>

**Table 1-2 BEA Documentation and Resources**

Resource	Description
AquaLogic User Interaction Support Center	<p>The AquaLogic User Interaction Support Center is a comprehensive repository for technical information on AquaLogic User Interaction products. From the Support Center, you can access products and documentation, search knowledge base articles, read the latest news and information, participate in a support community, get training, and find tools to meet most of your AquaLogic User Interaction-related needs. The Support Center encompasses the following communities:</p> <p><b>Technical Support Center</b></p> <p>Submit and track support incidents and feature requests, search the knowledge base, access documentation, and download service packs and hotfixes.</p> <p><b>User Group</b></p> <p>Visit the User Group section to collaborate with peers and view upcoming meetings.</p> <p><b>Product Center</b></p> <p>Download products, read release notes, access recent product documentation, and view interoperability information.</p> <p><b>Developer Center</b></p> <p>Download developer tools and documentation, get help with your development project, and interact with other developers via BEA's dev2dev newsgroups.</p> <p><b>Education Services</b></p> <p>Find information about available training courses, purchase training credits, and register for upcoming classes.</p> <p>If you do not see the Support Center when you log in to <a href="http://support.plumtree.com">http://support.plumtree.com</a>, contact <a href="mailto:ALUISupport@bea.com">ALUISupport@bea.com</a> for the appropriate access privileges.</p>
Technical Support	<p>If you cannot resolve an issue using the above resources, BEA Technical Support is happy to assist. Our staff is available 24 hours a day, 7 days a week to handle all your technical support needs.</p> <p>E-mail: <a href="mailto:ALUISupport@bea.com">ALUISupport@bea.com</a></p> <p>Phone Numbers:</p> <p>U.S.A. +1 866.262.PLUM (7586) or +1 415.263.1696</p> <p>Europe +44 1494 559127</p> <p>Australia/NZ +61 2.9923.4030</p> <p>Korea +82 27676 888</p> <p>Singapore +1 800.1811.202</p>





Welcome

# Development Resources

This chapter provides an overview of resources available for customizing AquaLogic User Interaction.

AquaLogic User Interaction components are designed to allow you to create a personalized experience for organizations, groups, and users. The AquaLogic Interaction Development Kit (IDK) allows you to customize every aspect of the portal.

For details on the components of the AquaLogic User Interaction architecture, see the section ["AquaLogic User Interaction Architecture"](#) in the Deployment Overview and the developer oriented section ["AquaLogic Interaction Architecture Overview"](#) in the Developer Documentation.

This chapter contains the following sections:

- ["Basic Portal Customizations" on page 2-2](#)
- ["Portlets" on page 2-2](#)
- ["Content Services" on page 2-2](#)
- ["Identity Services" on page 2-2](#)

The BEA Professional Services organization is available to develop these customizations and more. For details on the services available from BEA, contact your BEA representative.

## Basic Portal Customizations

The AquaLogic Interaction portal provides a framework for applications that allows you to customize the portal look and feel and functionality. These basic customizations require no custom Java or C# code.

For details on how to configure and customize the portal UI, see [Chapter 3, “Customizing the User Interface,”](#) and the section “[Basic Portal UI Customizations](#)” in the Development Documentation.

## Portlets

Each portal page is composed of multiple portlets. You can build portlets with any language or technology that can return HTML or XML over HTTP.

BEA provides the IDK development environment for developing portlets in Java and .NET. For details on the IDK, see “[IDK Development Environment](#)” in the Developer Documentation.

For details on developing portlets, see the section [Portlets](#) in the Development Documentation.

*Adaptive Portlets* allow the creation of a coordinated portal page comprised of cross-platform services that represent multiple applications. *Adaptive Tags* are a collection of XML tags that you can include in any gatewayed portal page. The portal gateway transforms the tags to include navigation, UI components, data objects, and other dynamic information in the portal page.

For details on Adaptive Portlets see “[Developing Adaptive Portlets](#)” in the Development Documentation. For details on Adaptive Tags, see “[Using Adaptive Tags](#)” in the Developer Documentation.

## Content Services

Content services index in the portal content from backend sources, allowing the backend sources to be searched using the portal search service. In addition to the content services provided with AquaLogic Interaction, you can create custom content services.

For details on developing content services, see “[Developing Content Services](#)” in the Developer Documentation.

## Identity Services

Identity services allow the integration of established repositories of user information into the portal. You can import users, groups, and group membership configuration. In addition to the

integration services provided with AquaLogic Interaction, you can create custom identity services.

For details on developing identity services, see [“Developing Identity Services”](#) in the Developer Documentation.

## Development Resources

# Customizing the User Interface

This chapter summarizes AquaLogic User Interaction user interface customization techniques, most of which do not require special programming skills.

The purpose of this chapter is to help you scope the effort of implementing the user interface for your deployment.

This chapter includes the following sections:

- [“About Experience Definitions” on page 3-1](#)
- [“Navigation” on page 3-2](#)
- [“Style Sheets and Portlets” on page 3-2](#)
- [“Branding” on page 3-2](#)
- [“Pluggable Event Interfaces \(PEIs\)” on page 3-3](#)
- [“Custom Activity Spaces” on page 3-3](#)

## About Experience Definitions

Experience Definitions determine many aspects of the user interface for broad groups of users. Experience Definitions control your start page when you log in, the features available to you, the appearance of your navigation, and what mandatory links are shown in your navigation.

You can create a number of Experience Definitions for different audiences, including unauthenticated or guest users.

For information on configuring Experience Definitions, refer to the Administrator Guide for AquaLogic Interaction.

## Navigation

Portal navigation is customizable; in fact, the portal ships with eight different navigation options out of the box. Navigation controls everything outside the center of the page, not including the header and footer. To change the navigation presented to a user, edit the Navigation Options in the Experience Definition editor.

Navigations are pluggable; that is, you can develop new navigations using programming languages like C++, Visual Basic .NET, Java, or by simply defining them in XML.

Although navigations are associated with Experience Definitions, each navigation can be very dynamic, displaying a completely different look for each page type, each user, or any other settings you like. For example, the support center navigation shows completely different HTML when you are on a support center community, even though it is all done within a single pluggable navigation view. The support center navigation is downloadable from <http://dev2dev.bea.com/aluserinteraction/>.

## Style Sheets and Portlets

If you are happy with the layout of your existing portal and simply want to change things such as fonts, colors, logos, and images, you can override all those settings by changing your style sheet. AquaLogic User Interaction supports localization of style sheets into many languages, the easiest way to modify a style sheet for a multi-language portal is to use the Style Sheet Mill, which takes values from template files and uses them to generate style sheets in multiple languages using localized text from our translation files.

For details about the Style Sheet Mill, see <http://dev2dev.bea.com/aluserinteraction/>.

## Branding

You can apply different headers and footers to different Experience Definitions and communities. The headers and footer set for the Experience Definition are applied to the entire interface, except for communities that have their own custom headers and footers.

AquaLogic Interaction Publisher provides three branding portlet templates that enable you to customize the look and feel of Experience Definitions and communities:



- **Header Portlet:** enables you to create customized headers. A header portlet appears at the top of the page, in the portal's banner area.
- **Footer Portlet:** enables you to create customized footers. A footer portlet appears at the bottom of the page.
- **Content Canvas:** enables you to create a branding portlet that spans the entire space just below the banner and above the page's other portlets.

You can create and configure branding portlets from these portlet templates using the Portlet Editor and Publisher's Configure Portlet Wizard. An AquaLogic User Interaction license enables you to download and install Publisher to create and customize these branding portlets for your communities and Experience Definitions.

You can also customize the way a header or footer appears in a particular community by using the Community Preferences page from the Community Editor.

For details, see the [Administrator Guide for AquaLogic Interaction Publisher](#).

## Pluggable Event Interfaces (PEIs)

Sometimes you want to add new functionality rather than modify existing functionality.

AquaLogic Interaction has a large number of event categories you can hook into, each with several different event types. For example, you might change the post login behavior: for users who had not yet filled in their user profiles, you could have them redirected to the user profile form. To accomplish this, you would need to implement not only a PEI, but a custom activity space, model, view, and controller for any special landing pages you wanted to write from scratch. You could also use Dynamic Discovery to override a view class for an existing page.

For details on PEIs, see <http://dev2dev.bea.com/aluserinteraction/>.

## Custom Activity Spaces

You might want to precisely control the exact look of the center of the page, as well. For example, you might want to control how portlets are rendered on the page. The file `MyPortalContentView` renders portlets into columns based on your page layout style. You might want to redesign that page center so that the portlets are arranged in rows instead of columns. For this, you would need to override the default view with your own, using dynamic discovery, also outlined in <http://dev2dev.bea.com/aluserinteraction/>.

A more forward-compatible approach involves extending `ActivitySpaces`, by creating new `ActivitySpaces` and views that extend existing ones and directing PEIs and other links to those

## Customizing the User Interface

new spaces. Then, as AquaLogic Interaction improves existing activity space components, your code will benefit.

# Localization

This chapter provides an overview of localization options for an AquaLogic User Interaction deployment.

## About Localization in AquaLogic User Interaction

All AquaLogic User Interaction products are fully Unicode-compliant and use UTF-8 encoding.

For additional details on localization and AquaLogic Interaction, see [“Localizing Your Portal”](#) in the *Administrator Guide for AquaLogic Interaction*.

For developer documentation on localizing custom Web services and portlets, see [“Internationalizing Your Customizations”](#) in the *Developer Documentation*.

## Localization and the ALI User Interface

Out of the box, the AquaLogic Interaction user interface is localized into eleven languages: Dutch, English, French, German, Italian, Portuguese, Spanish, Japanese, Korean, Simplified Chinese, and Traditional Chinese.

Each portal user can choose her preferred language by changing her locale under **My Account | Edit Locale Settings**. For example, if a portal user changes her locale setting to any of the German locales (Austria, Germany, Luxembourg, or Switzerland), the user interface language will change to German.

You can create additional languages for the AquaLogic Interaction user interface. For details, see [“Adding Custom Languages”](#) on page 4-5.

## Localization and Activity Services

Major Activity Services such as Collaboration and Publisher are localized to the same eleven languages as the AquaLogic Interaction user interface. Smaller Activity Services are localized to a subset of those languages.

It is possible to add custom languages to the Activity Services; however, these customizations are not recommended unless done by BEA professional services. To engage BEA professional services, contact your BEA representative.

## Localization and Search

The Search index is stored in UTF-8 Unicode and supports 62 languages.

The Search engine supports advanced stemming and tokenization for the following 23 languages:

Chinese (Simplified)	Chinese (Traditional)	Czech
Danish	Dutch	English
French	Finnish	German
Greek	Hungarian	Italian
Japanese	Korean	Norwegian (Bokmål)
Norwegian (Nynorsk)	Polish	Portuguese
Romanian	Russian	Spanish
Swedish	Turkish	

In addition to those 23 languages, the Search engine provides basic tokenization support for an additional 39 languages.

The Search engine languages are hardcoded and cannot be customized.

## Localizing Portal Objects

You can localize the names and descriptions of portal objects. For example, if you create a portlet with the name “Travel Portlet,” it is possible to associate the name “Dienstreise Portlet” with the portlet for display to German locales.

Names and descriptions are added or modified using the administrative user interface for each object. When the object is opened in the administrative editor, the **Properties and Names** page allows you to specify a name and description for any available language.

For details on editing object properties, see the AquaLogic Interaction online help.

## The Localization Manager

You can export and import localized names and descriptions in bulk with the **Localization Manager**. Names and descriptions of objects are exported from the AquaLogic Interaction database into an XML file. The XML file contains name and description strings and their translations. Translations are added or edited in the XML file, and then the names and descriptions imported into the ALI database using the Localization Manager.

This is a small sample of exported names and descriptions:

```
<localizationtable>

  <languages count='9'>

    <language>de</language>

    <language>en</language>

    <language>es</language>

    <language>fr</language>

    <language>it</language>

    <language>ja</language>

    <language>ko</language>

    <language>pt</language>

    <language>zh</language>

  </languages>

  <segments count='554'>

    <segment stringid='0' itemid='1' classid='2'>

      <source language='en'>Administrators Group</source>

      <target language='de'>Administratorengruppe</target>

      <target language='en'></target>
```

```
<target language='es'>Grupo Administradores</target>
<target language='fr'>Groupe d'administrateurs</target>
<target language='it'>Gruppo Amministratori</target>
<target language='ja'>管理者グループ</target>
<target language='ko'>관리자 그룹</target>
<target language='pt'>Grupo de administradores</target>
<target language='zh'>管理员用户组</target>
</segment>
<segment stringid='1' itemid='1' classid='2'>
  <source language='en'>ALI Administrators Group</source>
  <target language='de'>ALI-Administratorengruppe</target>
  <target language='en'></target>
  <target language='es'>Grupo Administradores de ALI</target>
  <target language='fr'>Groupe d'administrateurs ALI</target>
  <target language='it'>Gruppo Amministratori ALI</target>
  <target language='ja'>プラムツリー管理者グループ </target>
  <target language='ko'>ALI 관리자 그룹</target>
  <target language='pt'>Grupo de administradores ALI</target>
  <target language='zh'>Plumtree 管理员用户组</target>
</segment>
...
</segments>
</localizationtable>
```

In the exported XML:

- **<languages>** contains all of the user interface languages supported in the portal.
- **<segments>** contains one or more **<segment>** nodes. The count element shows the total number of name or description strings in the portal.

- **<segment>** contains a single name or description string and its translations. The contained **<source>** node is the original, to be translated text. The **<target>** nodes are the translations of the **<source>** node text.

The language element of each node is the ISO 639-1 two letter identifier for the given language.

## Adding Custom Languages

This section covers adding custom languages to the AquaLogic Interaction portal user interface. Adding custom languages to other AquaLogic User Interaction products, such as Collaboration or Publisher must be done by BEA professional services.

Adding a custom language to the AquaLogic Interaction portal user interface is a four step process:

1. Create a directory for the new language. For details, see [“Adding the Language Directory” on page 4-5](#).
2. Add style sheets.
3. Translate online help
4. Translate Javascript language files.

**Caution:** Customizing OpenFoundation language resources is currently not supported.

## Adding the Language Directory

The portal component loads supported languages based on the contents of the directory **<PT\_HOME>/ptportal/<ver>/i18n**. This directory contains one subdirectory for each supported language, each named with the ISO-639-1 language code.

The first step in adding a new language to the portal is to add a directory for that language to **<PT\_HOME>/ptportal/<ver>/i18n**. To do this:

1. Create a new directory under **<PT\_HOME>/ptportal/<ver>/i18n**. The directory must be named the ISO-639-1 language code of the language you intend to add.
2. Copy the contents of the **i18n/en** directory to the new directory.
3. Restart the portal. The new language is now available on the **My Account | Edit Locale Settings** page.

## Adding Language Style Sheets

The second step in adding a new language to the portal is to add style sheets for that language. This is done by editing template files that are built into CSS by the AquaLogic Interaction **cssmill** component.

The following steps describe this process, using the Czech language as an example:

**Note:** Extended characters must be translated into their Unicode escape (\uxxxx), and the leading backslash must be escaped with a second backslash (\\uxxxx).

1. On the Image Service, navigate to **ptimages/tools/cssmill/prop-text**. This directory contains the font and text-related properties for each language.
2. Copy the **en** file to the same directory, naming it with the ISO-639-1 language code of the language, for example, **cz** for Czech.
3. Edit the new file, making any necessary modifications for the new language.
4. Navigate to **../prop-color**. This directory contains color scheme properties for all languages.
5. Add a *colorscheme.name.<language code>* line to each file and setting it equal to the name of the color scheme in the language. For example, in **color.1.properties** the English language color scheme is named with this line:

```
colorscheme.name.en=Plum
```

To create a new name for the Czech locale, add a line:

```
colorscheme.name.cz=Lavendelblauw
```

6. Modify the appropriate Ant script so that the new language builds. The process for doing this is slightly different depending on whether the script is being run by Ant 1.5 or 1.6.

### For Ant 1.6

- a. Edit **ptimages/tools/cssmill/css-mill-ant-1-6.xml**.
- b. Add an entry for the new language under `<macrodef name="make_main_css">`, in the `<sequential>` node.

For Czech, the added line would be:

```
<make_main_language_css LANGUAGE="cz" COLOR="@{CIKIR}" />
```

- c. Add an entry for the new language under `<macrodef name="make_508colors_css">`, in the `<sequential>` node.

For Czech, the added line would be:



```
<make_508_lang_color_css LANGUAGE="cz" COLOR="@{COLOR}"
CSSPATH="@{CSSPATH}" />
```

- d. Add an entry for the new language under `<macrodef name="make_comm_color_css">`, in the `<sequential>` node.

For Czech, the added line would be:

```
<make_comm_lang_color_css LANGUAGE="cz" COLOR="@{COLOR}"
CSSPATH="@{CSSPATH}" INDEX="@{CSSPATH}index.properties" />
```

- e. Add an entry for the new language under `<macrodef name="append_index_for_color">`, in the `<sequential>` node.

For Czech, the added line would be:

```
<concat_color destfile="@{INDEX}" keyprop="mainstyle@{COLOR}-cz.css"
valprop="pre@{COLOR}.colorscheme.name.cz" />
```

- f. Save and close **css-mill-ant-1-6.xml**.

### For Ant 1.5

- a. Edit **ptimages/tools/cssmill/css-mill-ant-1-5.xml**.

- b. Add an entry for the new language under `<target name="make_main_css" depends="make_css_dir">`.

For Czech, the added line would be:

```
<antcall target="make_main_language_css"><param name="LANGUAGE"
value="cz" /></antcall>
```

- c. Add an entry for the new language under `<target name="make_508colors_css">`.

For Czech, the added line would be:

```
<antcall target="make_508_lang_color_css"> <param name="LANGUAGE"
value="cz" /><param name="COLOR" value="{COLOR}" /></antcall>
```

- d. Add an entry for the new language under `<target name="make_comm_color_css">`.

For Czech, the added line would be:

```
<antcall target="make_comm_lang_color_css"><param name="LANGUAGE"
value="cz" /></antcall>
```

- e. Add an entry for the new language under `<target name="append_index_for_color">`.

For Czech, the added line would be:

```
<concat destfile="\${INDEX} "  
append="true">mainstyle${COLOR}-cz.css=${colorscheme.name.cz}  
</concat>
```

- f. Save and close **css-mill-ant-1-5.xml**.
7. Update the CSS stylesheets by running the **<PT\_HOME>/ptimages/tools/cssmill/make\_all** script.
8. Verify that the stylesheets have been updated with the new language.
  - a. Verify that there are 20 files with the new language ID in **<PT\_HOME>/ptimages/tools/cssmill/css**.
  - b. Open **<PT\_HOME>/ptimages/tools/cssmill/css/community-themes.txt** and confirm that there is an entry for the newly added language ID.
9. Move the updated stylesheets from **cssmill/css** to the Image Service, **<PT\_HOME>/ptimages/imageserver/plumtree/common/public/css**.
10. Restart the Image Service.

## Adding an Online Help Language

Online help is located on the Image Service under each product's private/help directory. For example, the AquaLogic Interaction online help files are located in **imageserver/plumtree/portal/private/help**. Under this directory are two directories, **std** for standard online help and **508** for Section 508-compliant help. Under those directories are directories for each supported language.

For example, the standard English online help for AquaLogic Interaction is located in **imageserver/plumtree/portal/private/help/std/en**.

Online help is compiled using RoboHelp X5 for European languages and RoboHelp 2002 for Asian languages. RoboHelp projects are made available upon request. Contact [docsupport@bea.com](mailto:docsupport@bea.com) for details.

## Adding Javascript Language Files

You must localize string files for various Javascript user interface components when adding a language to the portal. The following Javascript components require you to add a string file with each added language:

- jscontrols

- jsdatepicker
- jsutil

These components are located on the Image Service, under **imageserver/plumtree/common/private/js**. The string files are located under each component's directory, in **LATEST/strings**.

To add a string file for the new language:

1. Copy the English file to a file in the strings file suffixed with the ISO-639-1 code of the language to be added. For example, to add a Czech string file to jscontrols, copy

**LATEST/strings/PTControls-en.js**

to

*LATEST/strings/PTControls-cz.js*.

2. Translate the copied string file to the language being added.

## Localization